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SEAL LUBRICATING CONSTRUCTION FOR PROPELLER SHAFT FOR MARINE TWIN
CONTRA-PROPELLER

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ABSTRACT

PURPOSE: To prevent the temperature and pressure rise of each seal by applying the constitution wherein an oil hole is made continuous to seal lip chambers at forward and aft ends of the housing of a plumber block for supporting an outboard shaft between an inboard shaft forward bearing and an outboard shaft forward bearing, and further made continuous to the seal lip chamber of each forward bearing.

CONSTITUTION: In a twin contra-propeller shaft for marine use, an aft propeller 16 is directly connected to a main engine 1 with an inboard propeller shaft 13, an inboard shaft coupling 5 and an inboard intermediate shaft 7. A forward propeller 17 is connected to the main engine 1 via an outboard propeller shaft 12, an outboard shaft coupling 20, a split-type hollow shaft 4, a reversal gear 3 and an elastic coupling 2. Furthermore, the lubrication of an inboard shaft forward bearing 9 and an outboard shaft forward bearing 11 is so made that lubricating oil (a) in a lubricating oil tank is first supplied to a space at the seal lip 10-2 of an outboard shaft forward seal 10, and then introduced to a space at the seal lip 8-7 of a plumber block 8 via an oil hole 10-3, a pipe 21 and oil holes 8-9 and 8-6. Thereafter, the oil is supplied to a space at the seal lip 6-3 of an inboard shaft forward seal 6.

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